FIGURE 1

```
 1      catggaaatcttgtgtttgtagGTGTGTGTCCACCGAGGCACCATCTACCCTGTGGGCCA
61      GTTCTGGGAGGAGGCCTGTGACGTGTGCACCTGCACGGACTTGGAGGACTCTGTGATGGG
121     CCTGCGTGTGGCCCAGTGCTCCCAGAAGCCCTGTGAGGACAACTGCCTGTCGgtaagggg
181     agcagaggggctgggcactgcctggagcaggcaagggacacactggggggagtgggggttc
241     tgggaaggggcaagagacccccttgagYaatttctggttcagggccagagatgaggggaag
301     gagaggact (SEQ ID NO:1)
```

FIGURE 2

Intron 42   **Exon 43**

```
gaaaacttatgtctacagGTGTGTGTCCACCGAAGCACCATCTACCCTGTGGGCCAGTTC  HUMAN  VWF
|||| ||| ||| |  |||||||||||||||||||| |||||||||||||||||||||||||||
gaaatcttgtgtttgtagGTGTGTGTCCACCGAGGCACCATCTACCCTGTGGGCCAGTTC  CANINE  VWF


TGGGAGGAGGGCTGCGATGTGTGCACCTGCACCGACATGGAGGATGCCGTGATGGGCCTC  HUMAN  VWF
||||||||||| ||| || |||||||||||||| ||| ||||||||  | ||||||||||||
TGGGAGGAGGCCTGTGACGTGTGCACCTGCACGGACTTGGAGGACTCTGTGATGGGCCTG  CANINE  VWF


CGCGTGGCCCAGTGCTCCCAGAAGCCCTGTGAGGACAGCTGTCGGTCGgtgagtggggc-  HUMAN  VWF
|| |||||||||||||||||||||||||||||||||||||| ||| | |||||| || || ||
CGTGTGGCCCAGTGCTCCCAGAAGCCCTGTGAGGACAACTGCCTGTCGgtaaggggagca  CANINE  VWF
```

                                             Intron 43

```
-aggggctgggca  HUMAN  VWF  (SEQ ID NO:10)
 |||||||||||||
gaggggctgggca  CANINE  VWF  (SEQ ID NO:11)
```

FIGURE 3.

A

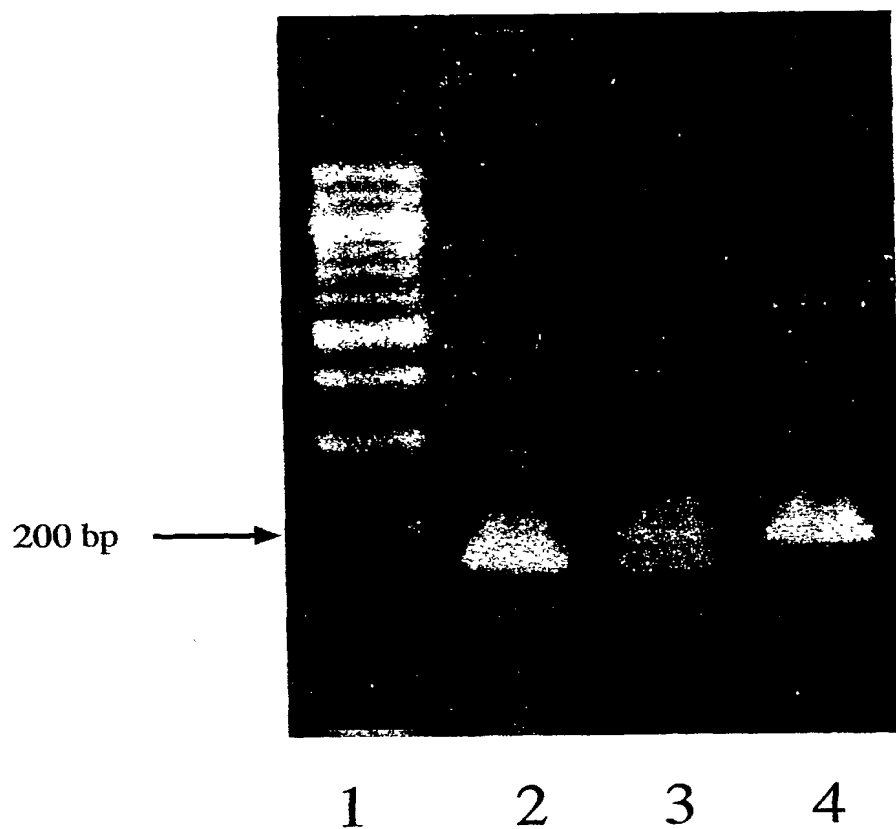**FORWARD PRIMER**

```
        5' CATGGAAATCTTGTGTTTGTAG 3'
1          catggaaatcttgtgtttgtagGTGTGTGTCCACCGAGGCACCATCTACCCTGTGGGCCA
61         GTTCTGGGAGGAGGCCTGTGACGTGTGCACCTGCACGGACTTGGAGGACTCTGTGATGGG
121        CCTGCGTGTGGCCCAGTGCTCCCAGAAGCCCTGTGAGGACAACTGCCTGTCAgtaagggg
                                                            3' TATTCCCC
181        agcagaggggctgggcactgcctggagc
           TCGTCTCCCCGTCCCGT 5'
```

REVERSE PRIMER

B

```
            TaqI
        TGCCTGTCGATaagggg        wild type PCR product- cuts with Taq1

        TGCCTGTCAATaagggg        mutant PCR product-does not cut with Taq1
        EXON43    intron 43
```

FIG. 4

200 bp →

1   2   3   4

FIGURE 5

INTRON 6

```
       gatcccccctgctgctgctgtccagagaccctgggctctgcatgtcagggctcagtctgg
61     gaagtaactttagtctccagccacttcttgagcatgagttcaacatctgtgctttgatgg
121    atacactgtttaatttgacaaatgttgacaagcacctacccggtgcctatgtgatggagc
181    ttccctggttttcctggcggggctggctctccacggagccacattcaggagggcactaat
241    ccaacgcactgtcgagccagggctgcatgggtgctgtcctcactgcctggcttctcgttc
```

EXON 7

```
301    ctgcagGTCCTGTGGGAGCAGTGCCAGCTCCTGAAGAGTGCCTCGGTGTTTGCCCGCTGC
361    CACCCGCTGGTGGACCCTGAGCCTTTTGTCGCCCTGTGTGAAAGGACTCTGTGCACCTGT
421    GTCCAGGGGATGGAGTGCCCTTGTGCGGTCCTCCTGGAGTACGCCCGGGCCTGTGCCCAG
481    CAGGGGATTGTCTTGTACGGCTGGACCGACCACAGCGTCTGCCgtaagtcagtggcccac
541    gctcccagctggggctgagtgctgtctgtcctggggtgtccccagggaagcccttgggct
601    gtgtcaccatcctggaccttgccacaccccaactggccagtgcctacagggccgattgt
661    gcctgggccacctgatcctgcaggaacgagaagccaggcagtgaggacagcacccatgca
721    gccctggctcgacagtgcgttggattagtgccctcctgaatgtggctccgtggagagcca
781    gccccgccaggaaaaccagggaagctccatcacataggcaccgggtaggtgcttgtcaac
841    atttgtcaaattaaacagYtgtatccatcaaagcacagatgttgaactcatgctacaaga
901    agtggctggagactaaagttacttcccagactgagccctgaacatgcagagcccagggtc
961    tctggacagcagcagcagggggggatc
```

INTRON 7

FIG. 6

300 bp ⟶

1   2   3